

FIG. 1

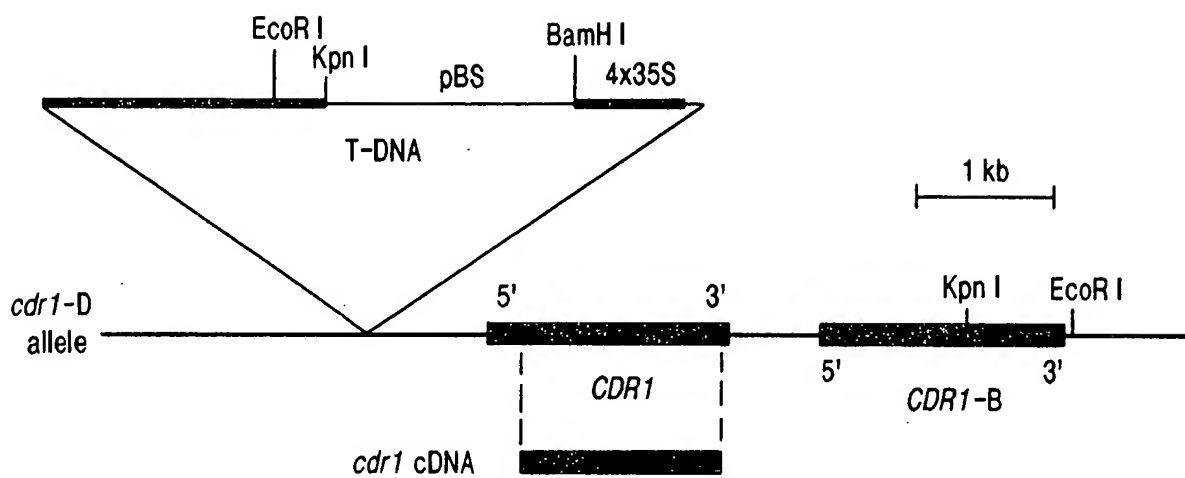


FIG. 2

Deduced amino acid sequence (SEQ ID NO:2)

MASLFSSVLLSLCLLSSFLSNANAKPKLGFADLIHRDSPKSPFYNPMMETSSQRLRNAIHRSVNRVHFTEKDNTPPQ
IDLTNSGEYLMNVSIGTPFPIMAIADTGSDLLWTQCAPCDDCYTQVDPLFPKTSSTYKDVSCSSQCTALENQASCS
TNDNTCSYSLSYGDNSTYKGNIAVDTLTGSSDTRPMQLKNIIGCGHNNAGTFNKKGSGIVGLGGPVSLIKQLGDSID
GKFSYCLVPLTSKKDQTSKINFGTNAIVSGSGVVSTPLIAKASQETFYLYTLKSISVGSQKQIQYSGSDSESSEGNIIIDS
GTTLLLPTEFYSELEDAVASSIDAEEKQDPQSGLSLCYSATGDLKVPVITMHFDGADVKLDSNAFVQVSKDLVCFADR
GSPSFSIYGNVAQMNFVGYDVTVSKTVSKPTDCAKM

genomic DNA for CDR1 (SEQ ID NO:1)

GGACATTCTT GGTCTACTCC AAGAATATCA AAGATCCAGT CTCAGAAGAC CAGAGGGCTA TTGAGACTTT
TCAACAAAGG GTAATATCGG GAAACCTCCT CGGATTCCAT TGCCCAGCTA TCTGTCACTT CATCGAAAGG
ACAGTAGAAA AGGAAGATGG CTCTACAAA TGCCATCATT GCGATAAAGG AAGGCTATC GTTCAAAGATG
CCTCTACCGA CAGTGGTCCC AAAGATGGAC CCCACCCAC GAGGAACATC GTGGAATAAG AAGACGTTCC
AACCACGTCT TCAAAGCAAG TGGATTGATG TGATATCAAA GATCGGAGAG TTATTTTATT TTAATTGTAC
TATATTTATA TTGTGATGTT TCTCTTAAAT TAAATTTA TGACTATATA TATGACAATA TATATATATA
TATATATATA TATATACATT ATTGAGATAG ATAATGAATA CATTAGTTTA TCATTAAATT TAATAGGTAC
TGATCTTCAA ATTATTTCA AACGATTCTC TGTCATTTT TCGATATTTT TAAACTAAAA TCCATTTTTT
AAAAAATAGA CTGATTTAAC AAACATTAAA AGTTAATTGT TTCTGTACAT GCCACGGATC GAAAATGAGT
CAGTAAATGA ATATTTTTA CCTAAAGTCA CACATTGTAT ATACCTAAGT AAATGATACA GACCAAAATT
AGAAAGATCAA GAATCCTTAT ATTACGAAA TATCCGGTTA CATTCTGTTA ATACTTTAAT GAAGAATCTA
GGATATAATT AAAGAAGAAG AAATATGTA AGCATTTAGA AATAAATAA CTTCGAGATA TAAGCAAACC
ATAAACACGT CCATATGAAT GAATGGTACA CTCCTCGTAA ATAAATAAAT ATATGCATCA AAATGAGAAA
ATCTTCACTT TTATTTATTC TTAATACGTC AGATTCTCTG AACACAAAAT GATATAATTT GTAGATAACT
TACTCAAAAC GTAAGAACTC ACTATCTATT ATCATTTATT AACCACTC TCATTAATCT TATAAATATG
TACTCAATTAG ATTGTCAAAA GTAAACCTC ACAATACACT TTAAACTACA AATCAAAACA ATGCGCTCTC
TATTCTCTC AGTTCTCTG TCTCTTGT TACTCTCTC ACTTTTCTC TCAAATGCAA ACGCTAAGCC

FIG. 3A

AAACTAGGC TTCACCGCGG ATCTAATCCA CCGTGATTCT CCTAAATCGC CGTCTATAA CCCGATGGAA
 ACCTCTTCCC AGCGTCTACG AACCGGATC CACCGATCCG TTAACCGTGT TTTCCATTTC ACTGAAAAGG
 ATAACACACC ACAACACACAG ATTGACCTCA CCTCAAATAG CCGTGAATAT CTCATGAACG TATCCATTGG
 AACACCTCCT TTCCCGATCA TGGCCATCGC CGACACCGGA AGTGATCTCC TCTGGACGCA GTGCGCACCA
 TGGGATGATT GTTACACTCA AGTTGATCCT CTCTTTGACC CTAAACGTC TTCCACATAC AAAGACGTTT
 CTTGCTCCTC AAGTCAATGT ACTGCCCTAG AAAATCAAGC CTCTTGTTCC ACAATGACA ACACCTTGTT
 TTAATCAATTG TCTTACGGGG ATAACTCATA CACAAGGGT AACATCGCCG TGGATACCTT AACGCTCGGC
 TCCAGCGATA CCGGCCCTAT GCAGCTTAAG AATATTATTA TCGGTTGTGG TCACAACAAC GCTGGAACGT
 TTAACAAGAA AGGCTCTGGA ATCGTCGGAC TAGGTGGTGG TCCGGTTTCG CTTATCAAGC AACTTGGCGA
 CTCCATCGAC GGTAAATTCT CATACTGCTT GGTTCTCTA ACTTCCAAA AGGATCAAAC GAGTAAATC
 AACTTCGGAA CCAATGCCAT CGTGTCGGGA TCAGGAGTTG TCTCAACTCC TCTGATCGCA AAGCGGCTC
 AAGAGACCTT CTATTACCTA ACCCTAAAT CCATTAGCGT GGAAGCAAG CAAATCCAAT ACTCAGGCTC
 AGATTCTGAA AGCAGCGAGG GAAACATCAT CATCGATTCA GGCACAACCTT TAACGTTATT ACCGACTGAA
 TTTTACTCCG AGCTCGAGGA TGCGTTGCA TCCTCTATCG ATGCTGAGAA GAAGCAAGAT CCACAAGCG
 GTTTGAGTCT ATGTTACAGT GCAACCGGAG ATCTAAAGT TCCAGTCAAT ACTATGCAAT TTGATGGAGC
 CGATGTGAAG CTTGACTCCT CCAATGCCTT TGTACAAAGT TCGGAGGATT TGGTTTGCTT TGCTTCCGC
 GGAAGCCCGA GTTTCTCCAT ATACGGTAAT GTGGCGCAGA TGAACCTTCT TAGTTGTTT CATCTCAACA TGTTTTCAA
 CCAAAACCGT GTCATTTAAG CCAACAGATT GTGCAAAAGT GTAGTTGTTT TTTTGAATTT TTCTAATICA
 AATTGTGTT TCAATTACAA TAATGGCTGA TTTAGTTTCA GCCTTAGTTC TCTTTTGGTG ATGCTTTGTA
 CATGTAGTAG TCTATCTTTT CAAGGGAGAG TTAATTTCTC GACCTTTTGT TAACTATTTT CTTGTCCATC
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 TTGTTCAAAA TTTAGTTTT TTTTCAATTT TTTTCAATTT TACTAATAA ATCTAGAAAT AATATTGCTT TTAAGGAATT
 ATTATTGTGA TGAATACTT ATAGAACA GATGAATGTG ATTCTAATTC AATGGGATTA TGGATTATAG
 ATATTGGTCC TACTATTCTA TTTTGATGTG TTCTATATT TACTATATTC AATGGGATTA TGGATTATAG
 AAATATTTTG AAATATTAT ACTATTATT ATAAATAATT CAATTAGTTT TTCTTCTTAA GTTTCTTATA
 AAAAATAAAT ATATCTTATA AGAAATAAAT ATATTTTATA TTTCATAAAA ATCATACATT GTACATATCT
 AGTGGATGA TACATGGCCT AAATTAGATC ATGAATCATA AAAATCCAGC TGTAGATAA CATAACAAGG

FIG. 3B

ATGAATGGTA CAATCCTGGT CAAAAAAAT AAAAGGAAA GTTATATGCA TTAAATGAG AAAATCTTCG
 CTTTATTGT TTCTTATTTA TCAGATTCTC TAAATGTAAA TGACACAATT TGATAGATAAT TTAGTAAAAA
 TGTAAAGAATC TCATCATGTA CTACCAATTA TGAATCCTTA TCCAATTGAC CTTATAAATA TTACTCATCA
 GATTGTCAA AGTAAAAACT GACCAATTCAG GCAATCACTT AAACATACAAT CTAAGAAAAAT GGCCTCTCTA
 TTCACCTTAC TTCTCTTGT TCTATGTTA TTCTCTCTC CTATTTCTC AAACGCAAAAC GCCAAACCAA
 AACTAGGCTT CACCGGGAT CTGATCCACC GCGATTCTCC TAAATCGCCA TTCTATAACC CGCGGAAAC
 CCTTCCCAA CGTATGAGAA ACGCTATCCA CCGATCCTT AACCGTGCCTT CCATTTTCAG TAATCTTTT
 GAAAAGGATG CATCACTTAA CGCACCAAA ACTGATATCA CCAAATATTT CGGTATATAT CTTATGAACG
 TATCCCTTGG GAGTTGGGAC ACCTCCGTC CCAATCATGG CGGCCGCTGA CACCGGAAGT GATCTCATCT
 GGACGCAGTG CAACCATGC GATGATTGTT ACACTCAAAGT TGATCCTCTC TTGACCCCTA AAGCGTCTTC
 CACATACAAA GACGTTTCTT GCCCTCAAG CCAATGTAGG GCTCTAAAG ATGATGCTTC TTGTTCCAAA
 AAAGACAACA CTTGCTCTTA CTCAATGAAT TACGGGGATA ACTCATACTC ACGGGTAAT GTCGCTGTGG
 ATACCTTAAC GTCGGGCTCC ACCGATAACC GTCCGGTGCA GGTAAAGAA ATTATCATCG GTTGTGGTCA
 CGAAAACGCT GTAACATTTA GAAACAAGAG CTCTGGAATC GTTGGACTTG GTGGTGGTGC GGTTCGCTC
 GTTAAACAAC TCGGAGACTC CATCGAAGGT AAATTCTCAT ACTGCTTGGT ACCTGAAAAT GATCAAAACGA
 GCAAGATTAG TTTGGGAACC AATCGGTTG TGTCGGGACC GGGAACTGTC TCAACTCCTT TGGTCGTGAA
 GTCTCCAGAG ACCTTCTATT TTCTAACCTT AAATCTATT ACCGTGGGAA GCAAGAATAT GCCAACCCCA
 GGCTCTGATA TCAAGGGAAA CATGCTCATC GATTCGGGCA CAACCTAAC TCTGTTACCT GGGAATATT
 ATTTCCAGAT TGAGAGTGCT GTTGGTCTT TAATCGATGC AGAGAGGTGC AAAGATGAAA GAATCGGTTT
 GAGTCTTTGA TACAATGCAA CCGCAGATCT GAAAGTCCCA GTCATTACTA TGCATTTCGA TGGAGCAGAT
 GTGAAGCTTG ATTCCTATAA TTCATTTTT AAAGTCTCAG ATGATTGGT TTGCTTTGCC TTGGCTTGA
 ACTTGATTAC GAGGGATGG ATATACGGGA ATGTGGGCA GAAGAACTTT CTTGTTGGAT ACGACACTGT
 TTCCAATCG TTGTCATTTA AAAAAACAGA TTGTGCAAG ATGTAGATGG TTCAGCTTAG CATGTGGCTA
 ATTCCTTTTTCAAAAGTATGTTTTCAGTTATCATATTGCTGAATTTAGCCTTAAATAGTTATTGAATTC

FIG. 3C

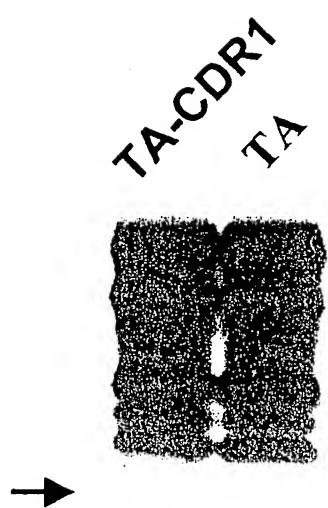


FIG. 4A

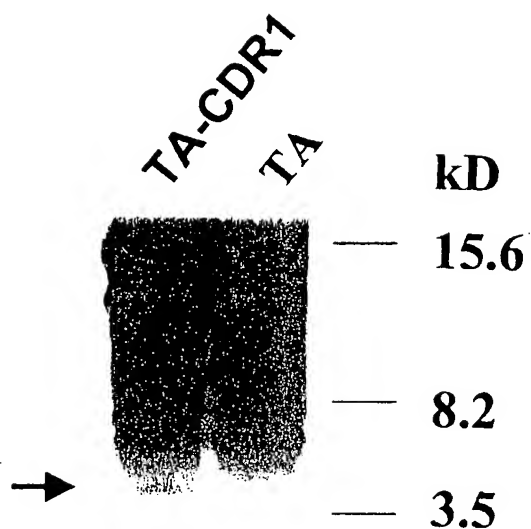


FIG. 4B